

CLAIM AMENDMENTS

WHAT IS CLAIMED IS:

This listing of the claims will replace all prior versions, and listing, of claims in the application:

1. **(Currently Amended)** An apparatus-(8) for adjustment of the impedance of a high-voltage line-(9) which carries an alternating current and comprises a plurality of phases, having at least one control coil-(2) which can be inserted into the high-voltage line-(9) connected in series, and having at least one switching device-(3) which is in each case associated with one control coil-(2), with a control unit-(4) being provided in order to control each switching device-(3) in such a manner that the effective reactance of the control coil-(2) in the apparatus-(8) can be adjusted by the switching of the switching device-(3),

~~characterized in that~~wherein

each switching device-(3) is arranged in a parallel path-(5) in parallel with the control coil-(2) associated with it.

2. **(Currently Amended)** The apparatus-(8) ~~as claimed in claim 1~~according to claim 1, wherein

~~characterized in that~~

at least one switching device-(3) comprises thyristors-(10) connected in opposite senses.

3. **(Currently Amended)** The apparatus-(8) according to claim 1, wherein~~as claimed in claim 1 or 2,~~

~~characterized in that~~

the control unit-(4) has a zero-crossing unit-(12), which is connected to current sensors (14), in order to verify a zero crossing of the alternating current, and has at least one trigger unit-(13, 13a, 13b) which is connected to a trigger angle transmitter-(19).

4. **(Currently Amended)** The apparatus-(8) according to claim 3, wherein~~as claimed in claim 3,~~

~~characterized in that~~

the trigger angle transmitter-(19) is connected to a current sensor-(14) in order to measure the alternating current, and is connected to a voltage sensor-(22) in order to measure the voltage on the high-voltage line-(9) with respect to the ground potential or with respect to the voltages between the phases, with the control unit-(4) having a read only memory element which is provided for storage of control parameters, with at least one matching unit-(25, 26, 33) being provided in order to detect discrepancies between the control parameters and the measured values from the current sensor-(14) and/or the voltage sensor-(22), or between the control parameters and measurement variables which are calculated from the measured values from the current sensor and/or voltage sensor.

5. **(Currently Amended)** The apparatus-(8) according to claim 1, wherein~~as claimed in one of the preceding claims,~~

~~characterized in that~~

two control coils-(2) are provided, which are arranged in series and each have a switching device-(3), which is arranged in the associated parallel path-(5), connected in parallel with it.

6. **(Currently Amended)** The apparatus-(8) according to claim 5, wherein~~as claimed in claim 5,~~

~~characterized in that~~

the control unit-(4) has two trigger units-(13a, 13b), which interact with a respective switching device-(3a, 3b).

7. **(Currently Amended)** The apparatus-(8) according to claim 5, wherein as claimed in claim 5 or 6,

—characterized in that

one of the switching devices-(3b) has thyristors which are connected in opposite senses, with the other switching device-(3a) being a mechanical switch.

8. **(Currently Amended)** The apparatus-(8) according to claim 1, comprising as claimed in one of the preceding claims,

—characterized by

a capacitor-(40) which is connected in series with the control coil-(2) and can be bridged by means of a capacitor switching unit-(42) which is arranged in parallel with the capacitor-(40) in a capacitor parallel path-(41).

9. **(Currently Amended)** The apparatus-(8) according to claim 8, wherein according to claim 8,

—characterized in that

a coil is provided in the capacitor parallel path-(41).

10. **(Currently Amended)** The apparatus-(8) according to claim 8, comprising as claimed in one of claims 8 or 9,

—characterized by

a filter unit-(45), which is arranged in parallel with a series path in which the control coil-(2) and the capacitor-(40) are connected in series.

11. **(Currently Amended)** A method for adjustment of the impedance of a high-voltage line which carries alternating current, ~~in which~~ the method comprising the step of:

- bridging the control coil (2) is bridged as a function of the phase of the alternating current by triggering a switching device (3, 3a, 3b) which is arranged in a parallel path (5) in parallel with a control coil (2) which can be inserted in series into the high-voltage line, ~~with~~ wherein the impedance of the high-voltage line being adjusted in this way.

12. **(Currently Amended)** A control unit (4) for adjustment of the impedance of a high-voltage line (9) which carries alternating current, ~~having~~ comprising

a zero-crossing sensor (12) for production of ~~generating~~ a zero-crossing signal (16) on verification of a zero crossing of the alternating current, and ~~having~~

at least one trigger unit (13, 13a, 13b), which is connected to a phase measurement device and to a trigger angle transmitter (19) for production of ~~generating~~ a trigger angle for the trigger unit, and which produces a trigger signal after a delay time corresponding to the trigger signal, on receiving a zero-crossing signal, which trigger signal is used to control the impedance of the high-voltage line (9) by using a switching device (3) to bridge a control coil (2), which is inserted in series into the high-voltage line (9).